

[54] MULTI-CYCLE, ENGINE BRAKING WITH  
POSITIVE POWER VALVE ACTUATION  
CONTROL SYSTEM AND PROCESS FOR  
USING THE SAME

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[58] Field of Search .... 123/320, 321,  
123/322

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[57] ABSTRACT

An apparatus and method for effectuating multi-cycle engine braking is disclosed. The present invention controls the operation of the engine valves to permit more than one compression release event during a single engine operating cycle. The apparatus includes an assembly for operating at least one exhaust valve of an engine cylinder during a positive power operation. The apparatus further includes an assembly for operating at least one intake valve of the engine cylinder. The apparatus further including an assembly for operating the at least one exhaust valve during an engine braking operation.

21 Claims, 14 Drawing Sheets